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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/633,681	08/05/2003	Keiichi Yoshioka	R2184.0247/P247	6878
²⁴⁹⁹⁸ DICKSTEIN S	7590 09/13/2007 HAPIRO LLP		EXAMINER	
1825 EYE STREET NW Washington, DC 20006-5403			WOJCIECHOWICZ, EDWARD JOSEPH	
washington, D	C 20006-5403		ART UNIT	PAPER NUMBER
		·	2815	

			MAIL DATE	DELIVERY MODE
			09/13/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/633,681	YOSHIOKA, KEIICHI				
Office Action Summary	Examiner	Art Unit				
	Edward Wojciechowicz	2815				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC, 36(a). In no event, however, may a reputil apply and will expire SIX (6) MONTI, cause the application to become ABA	ATION: lly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status		•				
1)⊠ Responsive to communication(s) filed on <u>20 Ju</u>	ine 2007.					
_						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims	·					
4)⊠ Claim(s) <u>1-13,16 and 17</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-13,16 and 17</u> is/are rejected.	6)⊠ Claim(s) <u>1-13,16 and 17</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers	•	•				
9) ☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached (Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	, ,,,					
* See the attached detailed Office action for a list of the certified copies not received.						
·	•					
. Attachment(a)						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Sur	mmary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 521-07. 5) Notice of Informal Patent Application 6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-13, 16 and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The exact structure of the "heat conduction part" is, as yet, not clearly understood. The claims do not specifically define what is meant by a different "path". Are the heat conduction part and the signal transmitting part physically isolated from each other or branches of the same metallization network?

That is, applicant has previously argued (pg. 8, Remarks of 12-28-06) that part (33) and part (37) shown in FIG. 2, both constitute heat conduction parts. However, as seen in FIG. 2, part (33) is physically attached to other metallization which constitutes part of the signal transmission path, while part (37) appears to be physically isolated from the signal transmission path. Thus, it is unclear what is meant by the recitation that "the" heat conduction part provides a path "different" from a signal transmission path?

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13, 16 and 17 are further rejected under 35 U.S.C. 103(a) as being unpatentable over Yamazaki et al in view of Shimada et al, both of record, for the reasons stated in the previous action, hereby incorporated by reference. To the extent that the inventive structure hinges on whether a heat conduction part is physically isolated from the other metallization which forms the signal transmission parts, it is noted that FIG. 3 of Shimada also shows sections of metallization (11L) which appear to be

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physically isolated from the other device metallization. This section of metallization would seem to be analogous to part (37) shown in FIG. 2 of the instant invention.

Absent a more specific recitation of the physical distinction between the signal transmitting part and the heat conduction part of the inventive structure, the claimed features would be met by the references of record.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Wojciechowicz whose telephone number is 571-272-1739. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ken Parker can be reached on (571) 272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Edward Wojciechowicz Primary Examiner Art Unit 2815

EW: ew